

**Notice of Allowability**

Application No.

10/659,871

Examiner

Robert R. Raevis

Applicant(s)

HAVAS ET AL.

Art Unit

2856

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9-11-03.
2. ☒ The allowed claim(s) is/are 6-9.
3. ☒ The drawings filed on 11 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>9-11-03</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                              | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

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### EXAMINER'S AMENDMENT

The application has been amended as follows:

On page 1, after "September 7, 2001" (line 1) insert, -- now Patent Number 6,651,319 --

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Koshimizu et al teach coupling pressure sensor to a fuel tank, but does not teach the claimed coupling of Applicants' claim 6.

Garfinkel teaches coupling a sensor 10 to a substrate 11 via a first layer 13 having a desirable thickness ("3 micron thickness" (col. 3, line 15)) and a second layer 14. However, (1) the second layer is not "disposed between" (line 3 from bottom of Applicants' claim 6) the sensor and the first layer, (2) the "electrolytic deposition" (col. 3, lines 27-28) applied first layer and the solder layer 14 second layer may not properly be labeled adhesives they are not sticky/gummed, as suggestive of the curing nature required of adhesives (as per Applicants' description that required curing on p. 5, second full paragraph, written specification).

Shiono et al couple a sensor 4 to a substrate via adhesive 2 and adhesive 7. However, there is no one adhesive "disposed between said sensor" (line 3 from bottom of claim 6) and the other adhesive.

Applicant cited Yamada teaches use of an adhesive layer 2 and insulating adhesive 30 layers to join a chip 4 to a substrate 1. Yamada's only reference to adhesive dimensions include a "predetermined size" (col. 4, lines 31-32) of a "concave

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20" (col. 4, line 31). However, (1) Yamada's the finally constructed "device" (Title) does not appear to have two individual adhesive layers as they are "squashed" (col. 6, line 10) to such an extent that the one layer is no longer between the chip and the other layer (See Figures 1(d), 1(e) and col. 6, lines 9-26), (2) the chip may not fairly be called a "sensor", and (3) the dimensions of the final layer(s) (in Figure 1(e)) do not seem to allow for a layer "having a pre-determined thickness" (claim 6, line 4).

As to claim 6, note was made of the combination of "having a pre-determined thickness" (line 4), "sensor", and "second layer of *adhesive* disposed *between* said *sensor and said first layer of adhesive*" (italics added, last three lines) limitations with remaining claim limitations. Note was made of the importance of the "pre-determined thickness" as described on p. 1, lines 8-10 from bottom of the page).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert R. Raevis whose telephone number is 571-272-2204. The examiner can normally be reached on Monday to Friday from 6:30am to 4:00pm. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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